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CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021 Date:08.01.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of Work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore
Sample : : Cement (Zuari 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: Dec-20
Date of Testing 06.01.2021 to 08.01.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date 08.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of Work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore

Date of Testing 08.01.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	60	6.00	6.00	94.0	90-100
2.36	122	12.20	18.20	81.8	75-100
1.18	158	15.80	34.00	66.0	55-90
600 Micron	271	27.10	61.10	38.9	35-59
300 Micron	165	16.50	77.60	22.4	8-30
150 Micron	142	14.20	91.80	8.2	0-10

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 08.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore

Date of Testing 08.01.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	235	1.57	1.57	98.43	95-100
20	8451	56.34	57.91	42.09	30-70
10	3326	22.17	80.08	19.92	10-35
4.75	2748	18.32	98.40	1.60	0-5

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 08.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore

Date of Testing 08.01.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	160	3.2	3.2	96.8	95-100
10	2418	48.4	51.6	48.4	25-55
4.75	2025	40.5	92.1	7.9	0-10

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 08.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of Work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore

Date of Testing 08.01.2021

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	21	2.10	3.90	96.1	70-100
600 Micron	92	9.20	13.10	86.9	40-100
300 Micron	256	25.60	38.70	61.3	5-70
150 Micron	491	49.10	87.80	12.2	0-15

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 08.01.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	: **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency	: **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of Work	: Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore
Steel Dia/Length	: 8mm,10mm,12mm" TMT"
Reference to BIS codes	: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
	: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test	08.01.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.396	502	610	1.22	14.5
2	TMT	10	0.618	516	625	1.21	16
3	TMT	12	0.888	532	636	1.20	18

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 25.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency	: **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of the work	: Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	25.01.2021	8.031	350.0	15.56
2	18.01.2021	25.01.2021	8.154	360.0	16.00
3	18.01.2021	25.01.2021	8.197	370.0	16.44

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 15.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

Name of the work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	15.02.2021	8.197	506.9	22.53
2	18.01.2021	15.02.2021	8.124	512.3	22.77
3	18.01.2021	15.02.2021	8.146	527.8	23.46

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 25.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of the work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	25.01.2021	8.162	349.9	15.55
2	18.01.2021	25.01.2021	8.142	352.3	15.66
3	18.01.2021	25.01.2021	8.178	367.8	16.35

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 15.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, R R Nagar Division,BBMP, Bangalore.

Agency : Sri. T Chandrasekar Reddy Contractor, Bangalore.

Name of the work : Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	15.02.2021	8.177	515.2	22.90
2	18.01.2021	15.02.2021	8.142	522.3	23.21
3	18.01.2021	15.02.2021	8.164	541.5	24.07

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Agency : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	25.01.2021	8.031	352.1	15.65
2	18.01.2021	25.01.2021	8.157	368.7	16.39
3	18.01.2021	25.01.2021	8.142	374.5	16.64

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 15.02.2021

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	15.02.2021	8.197	501.8	22.30
2	18.01.2021	15.02.2021	8.122	526.3	23.39
3	18.01.2021	15.02.2021	8.143	538.9	23.95

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	25.01.2021	8.064	342.1	15.20
2	18.01.2021	25.01.2021	8.127	356.2	15.83
3	18.01.2021	25.01.2021	8.143	377.9	16.80

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 15.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagar Diyision,BBMP, Bangalore.
Agency	: **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of the work	: Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	15.02.2021	8.194	506.9	22.53
2	18.01.2021	15.02.2021	8.124	524.7	23.32
3	18.01.2021	15.02.2021	8.167	530.1	23.56

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 25.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency	**: Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Name of the work	: Construction of Drain at Selected reaches in Ward No.16, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	25.01.2021	8.051	345.9	15.37
2	18.01.2021	25.01.2021	8.166	356.6	15.85
3	18.01.2021	25.01.2021	8.124	364.8	16.21

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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CIVIL QUALITY
CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 15.02.2021

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Client	: **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency	: **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2021	15.02.2021	8.154	503.2	22.36
2	18.01.2021	15.02.2021	8.122	515.6	22.92
3	18.01.2021	15.02.2021	8.179	528.9	23.51

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